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MAN MEDINE PA	perwork Reduction Act of 1989, or	Application Number	10/600,070		
 TR	ANSMITTAL	Filing Date	06/20/2003		
11	FORM	First Named Inventor	Osteryoung et al.		
	LOI/IAX	Art Unit	1638		
		Examiner Name	Kubelik, A.R.		
(to be used for all correspondence after initial filling)		Attorney Docket Number	MSU-08153		
Total Number of	Pages in This Submission		M30-06 (33		
		ENCLOSURES (Check all	that apply)		
Fee Transmittal Form Fee Attached Amendment/Repty After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement		Drawing(a) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence of Contract Change of Correspondence of Contract Change of Correspondence of Contract	Other Enclosure(s) (please Identify below): Form PTO-1449 and copies of references clted thereon		
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Firm Name Medien & Carroll LLP					
Signature	Signature Maha Handan				
Printed name	Maha A. Hamdan				
Date	May 23 , 2008		Rog. No. 43,855		
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Cliff Cannon-Cin

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Date May 23 , 2008

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Effective on 12/08/2004, Pees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).	Complete If Known Application Number 10/600.070				
FEE TRANSMITTAL	Filing Date	06/20/2003			
For FY 2008	First Named Inventor	Osteryoung, et al.			
	Examiner Name	Kubelik, A.R.			
Applicant claims small entity status. See 37 CFR 1.27	Art Unit	1638			
TOTAL AMOUNT OF PAYMENT (\$) 105.00	Attorney Docket No.	MSU-08153			
METHOD OF PAYMENT (check all that apply)					
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FEE CALCULATION					
1. BASIC FILING, SEARCH, AND EXAMINATION FEES					
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Design 210 105 100	50 13	0 65			
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Each independent claim over 3 (including Reissues)					
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HP = highest number of total claims paid for, if greater than 20.					
Indep. Claims					
HP = highest number of independent claims paid for, if greater than 3.					
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer					
listings under 37 CFR 1.52(c)), the application size fee due is \$260 (\$130 for small entity) for each additional 50					
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4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount) Fees Paid (\$)					
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Signature	Mahatamdan	Registration No. (Attorney/Agent) 43,655	Telephone 415.904.6500
Name (Print/Type)	Maha A. Hamdan		Date May 23 9 2008

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		Application Number	10/600,070	
FEE TRANS	SMII IAL	Filing Date	06/20/2003	
For FY 2	2008	First Named Inventor	Osteryoung, et al.	
		Examiner Name	Kubelik, A.R.	
Applicant claims small entity status. See 37 CFR 1.27		Art Unit	1638	
TOTAL AMOUNT OF PAYMENT (3	\$) 105.00	Attorney Docket No.	MSU-08153	
METHOD OF PAYMENT (check all that apply)				
Check Credit Card Money Order None Other (please identify):				
Deposit Account Occount Number: 08-1290 Deposit Account Name: Medien & Carroll LLP				
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FEE CALCULATION 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **EXAMINATION FEES FILING FEES** SEARCH FEES Small Entity Small Entity Small Entity Fee (\$) Fees Paid (\$) Application Type Fee (\$) Fee (\$) Fee (\$) Fee (\$) Eee_(\$) 310 510 210 105 Utility 155 255 210 130 105 100 65 Design 50 160 Plant 210 105 310 80 155 620 310 510 Reissue 155 255 310 210 **Provisional** 105 0 0 0 0

Small Entity 2. EXCESS CLAIM FEES Eee (\$) Fee Description <u>Fee (\$)</u> Each claim over 20 (including Reissues) 50 25 Each independent claim over 3 (including Reissues) 210 105 370 Multiple dependent claims 185 Total Claims Fee Paid (\$) Multiple Dependent Claims Extra Claims Fee (\$) - 20 or HP = 25 Fee (\$) Fee Paid (\$)

HP = highest number of Independent claims paid for, if greater than 3.
APPLICATION SIZE FEE

information and authorization on PTO-2038.

3. APPLICATION SIZE FEE
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SUBMITTED BY				
Signature	Maha.	Handan	Registration No. (Attorney/Agent) 43,655	Telephone 415.904.6500
Name (Print/Type)	Maha A. Hamden			Date May 23, 2008

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Osteryoung et al.

Serial No.:

10/600,070

Group No.: 1638

Filed:

06/20/03

Examiner:

Kubelik, A.R.

Entitled:

PLASTID DIVISION AND RELATED GENES,

PROTEINS, AND METHODS OF USE

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Assistant Commissioner for Patents Washington, D.C. 20231

CERTIFICATE OF MAILING UNDER 37 CFR § 1.8(a)

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The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97.

Copies of the references listed as number 34-201 and 207-208 on the enclosed PTO-1449 are enclosed.

Copies of the patent references listed as numbers 1-33 on the enclosed PTO-1449 are not submitted in accordance with 37 CFR § 1.98(a)(2)(ii), since they are U.S. patents or U.S. patent application publications.

In accordance with 37 CFR 1.98 (d), copies of the references listed as 202-205, and 206 on the enclosed PTO-1449 are not submitted since they were cited by the Examiner in the Office Actions mailed, respectively, on 3/3/06 and 5/14/07 in the instant application.

The Examiner is requested to make these citations of official record in this application.

The following patents are referred to in the body of the specification:

U.S. Patent No. 4,683,195 issued 7/28/87 to Mullis et al.;

- U.S. Patent No. 4,683,202 issued 7/28/87 to Mullis;
- U.S. Patent No. 4,965,188 issued 10/23/90 to Mullis *et al.*;
- U.S. Patent No. 5,352,605 issued 10/4/94 to Fraley;
- WO 95/14098 published 5/26/95;
- U.S. Patent No. 5,584,807 issued 12/17/96 to McCabe;
- ^o U.S. Patent No. 5,837,458 issued 11/17/98 to Minshull *et al.*;
- U.S. Patent No. 5,830,721 issued 11/3/98 to Stemmer et al.;
- U.S. Patent No. 5,811,238 issued 9/22/98 to Stemmer *et al.*;
- U.S. Patent No. 5,733,731 issued 3/31/98 to Schatz et al.;
- U.S. Patent No. 5,223,409 issued 6/29/93 to Ladner et al.;
- U.S. Patent No. 5,198,346 issued 3/30/93 to Ladner et al.;
- U.S. Patent No. 5,096,815 issued 3/17/92 to Ladner et al.
- WO 88/06630 published 9/7/88;
- WO 92/09690 published 6/11/92;
- U.S. Patent No. 5,187,267 issued 2/16/93 to Comai et al.;
- U.S. Patent No. 5,057,422 issued 10/15/91 to Bol *et al.*;
- U.S. Patent No. 5,981,839 issued 11/9/99 to Knauf *et al.*;
- U.S. Patent No. 6,051,757 issued 4/18/00 to Barton *et al.*;
- U.S. Patent No. 5,981,840 issued 11/9/99 to Zhao et al.;
- U.S. Patent No. 5,824,877 issued 10/20/98 to Hinchee *et al.*;
- U.S. Patent No. 4,940,838 issued 7/10/90 to Schilperoort *et al.*
- U.S. Patent No. 5,501,967 issued 3/26/96 to Offringa *et al*.
- U.S. Patent No. 5,846,795 issued 12/8/98 to Ahlquist *et al.*;
- U.S. Patent No. 5,500,360 issued 3/19/96 to Ahlquist *et al.*;
- U.S. Patent No. 5,173,410 issued 12/22/92 to Ahlquist;
- U.S. Patent No. 5,965,794 issued 10/12/99 to Turpen;
- U.S. Patent No. 5,977,438 issued 11/2/99 to Turpen *et al.*;
- U.S. Patent No. 5,866,785 issued 12/2/99 to Donson et al.;
- WO 93/07278 published 4/15/93;
- U.S. Patent No. 5,451,513 issued 9/19/95 to Maliga *et al.*;

- U.S. Patent No. 5,545,817 issued 8/13/96 to McBride et al.;
- U.S. Patent No. 5,545,818 issued 8/13/96 to McBride et al.;
- WO 95/16783 published 6/22/95;
- EP 0 292 435 published 11/23/88;
- U.S. Patent No. 4,945,050 issued 7/31/90 to Sanford et al.;
- WO 94/13822 published 6/23/94; and
- U.S. Patent No. 6,063,947 issued 5/16/00 to DeBonte *et al.*

The following publications are referred to in the body of the specification:

- Osteryoung *et al.* (1998) "Chloroplast Division in Higher Plants Requires Members of Two Functionally Divergent Gene Families with Homology to Bacterial *ftsZ*," Plant Cell 10:1991-2004;
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Maple et al. (2007) Annals Botany 99:565-679.

The following references were cited by the Applicant in the Amendment and Response to the Office Action mailed 2/26/08.

PATENT Attorney Docket No. MSU-08153

- U.S. Patent No. 5,981,836 issued to Osteryoung;
- U.S. Patent No. 6,812,382 issued to Hitz et al.; and
- Vitha et al. (2003) The Plant Cell 15:1918-33.

Applicant has become aware of the following printed publication which may be material to the examination of this application:

Koksharova et al. (2002) J. Bacteriol. 184:5524-5528. Koksharova et al. discloses a Synechococcus mutant FTN2 that has an N-terminal DnaJ domain. Koksharova et al. also discloses a cyanobacteria Anabaena species that is mutated in genes orthologous to ftn2 and ftn6 and that form akinete-like cells. However, Koksharova et al. does not disclose nucleotide SEQ ID NO:3, or the encoded amino acid SEQ ID NO:2.

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: May 23, 2008

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